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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/803,945	03/19/2004	Kenichi Shimooka	TSM-37	7176
24956 7590 MATTINGLY ST	03/01/2007 CANGER, MALUR & 1	EXAM	EXAMINER	
1800 DIAGONAL ROAD SUITE 370 ALEXANDRIA, VA 22314			PERUNGAVOOR, VENKATANARAY	
			ART UNIT	PAPER NUMBER
,	-	2132		
SHORTENED STATUTORY PI	ERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MONTI	HS	03/01/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)	
Office Action Summary		10/803,945	SHIMOOKA ET AL.	
		Examiner	Art Unit	
		Venkat Perungavoor	2132	
Period fo	The MAILING DATE of this communication apor Reply	ppears on the cover sheet with the	correspondence address	
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statutely reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION in 136(a). In no event, however, may a reply be to divide a will apply and will expire SIX (6) MONTHS froute, cause the application to become ABANDON	DN. imely filed m the mailing date of this communication. IED (35 U.S.C. § 133).	
Status				
1)⊠ 2a)⊠ 3)□	Responsive to communication(s) filed on <u>14</u> This action is FINAL . 2b) The Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters, p		
Dienoeit	ion of Claims	,,,,,,,		
5) □ 6) ⊠ 7) □ 8) □ Applicat 9) □ 10) □	Claim(s) 7,9-17,19 and 21-28 is/are pending 4a) Of the above claim(s) is/are withdred claim(s) is/are allowed. Claim(s) 7,9-11,14-17,19 and 21-28 is/are reclaim(s) is/are objected to. Claim(s) are subject to restriction and are subject to restriction and are subject to restriction and are subjected to by the Examination Papers The specification is objected to by the Examination Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examination of the correct the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration of the oath of the oath or declaration of the oath of the oath of	rawn from consideration. jected. /or election requirement. ner. ccepted or b) objected to by the e drawing(s) be held in abeyance. Section is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).	
Priority (ınder 35 U.S.C. § 119			
12) [a)	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bures See the attached detailed Office action for a list	nts have been received. nts have been received in Applica onty documents have been receiv au (PCT Rule 17.2(a)).	ition No ved in this National Stage	
2)	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date. <u>200702162</u> .	

Art Unit: 2132

DETAILED ACTION

Response to Arguments

The Applicant's arguments filed on 12/14/2006 are not persuasive. As Kuznetsov(US Patent 5483649) discloses memories (fig. 9 item 122,156,124,126,128,130) further including these memories connected to a hard disk(item 32), where the hard disk sends data through the bus(52) into the memories. And the memories and hard disk are all part of a larger system. The hard disk controller(30) controls access to hard disk(32) so that data, addresses or control information can be passed from the memories to hard disk and vice versa. The *pair* of memories, the Examiner interprets it as memories that share the same characteristics(i.e. same capacity), and this is met by memories 122 & 130, as an example.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

Claims 7, 9-11, 14-17, 19, are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 5,483,649 to Kuznetsov et al.(hereinafter Kuznetsov).

Regarding Claim 7, 10, 11, Kuznetsov discloses the data protection apparatus with a computer system having a storage volume(Fig. 1 item 32), a control unit for controlling communication between storage volume(Fig.1 item 30) and second volume see Col 16 Ln 14-16) that is a pair of memories, a event detection unit for detecting event occurrence(Col 6 Ln 20-47 & Fig. 1 item 120A), a replication stopping unit for stop

Art Unit: 2132

& Fig. 1 item 120B & Col 1 1 Ln 42-64), the illegal intrusion detection unit for detecting illegal intrusion(Fig. 1 item 135, 137, 139 & Col 16 Ln 26-Col 17 Ln 9), further the event detection unit(see Fig.1 item 120A) receiving the detection of intrusion from illegal intrusion detection unit and the replication stopping unit stops the communication from computer and storage volume(Fig. 1 item 120). And further discloses first, second memory see Col 15 Ln 65- Col 16 Ln 1. The pairing of memories is illustrated by Kuznetsov in way of multiple memories being part of module see Fig. 2 item 20B. Further yet, Kuznetsov discloses the copying of register values and program stack see Fig. 7A, which is axiomatic of replication where the data is copy from the kernel and hard disk(32), replicated into memories(156) for retrieval afterward see Fig. 7D item "Restore Register Values". And see arguments above.

Regarding Claim 9, Kuznetsov discloses the computer system virus detection unit detecting viruses in storage see Abstract & Col 15 Ln 30-64, event detection unit receiving detection form computer virus detection unit see Fig. 1 item 12OA, and replication stopping unit to stop communication upon detection of virus see Fig. 1 item 120.

Regarding Claim 14, Kuznetsov discloses the data protection apparatus with a computer system having a storage volume(Fig. 1 item 32), a control unit for controlling communication between storage volume(Fig.I item 30) and second volume(see Col 16

Art Unit: 2132

Ln 14-16), a event detection unit for detecting event occurrence(Col 6 Ln 20-47 & Fig. 1 item 120A), a replication stopping unit for stop communication between computer and storage volume(Col 5 Ln 36-45 & Col 4 Ln 16-23 & Fig. 1 item 120B & Col 11 Ln 42-64), the illegal intrusion detection unit for detecting illegal intrusion(Fig. 1 item 135, 137, 139 & Col 16 Ln 26-Col 17 Ln 9), further the event detection unit(see Fig. 1 item 120A) receiving the detection of intrusion from illegal intrusion detection unit and the replication stopping unit stops the communication from computer and storage volume(Fig. 1 item 120), the alteration detection unit for detecting the differences between log data see Col 17 Ln 25-43 and further the use of registers for restoring values see Col 20 Ln 49-65. And further discloses first, second memory see Col 15 Ln 65- Col 16 Ln 1. The pairing of memories is illustrated by Kuznetsov in way of multiple memories being part of module see Fig. 2 item 20B. Further yet, Kuznetsov discloses the copying of register values and program stack see Fig. 7A, which is axiomatic of replication where the data is copy from the kernel and hard disk(32), replicated into memories(156) for retrieval afterward see Fig. 7D item "Restore Register Values". See Arguments above.

Regarding Claim 15, Kuznetsov discloses the delay of time between writing to second volume from storage volume see Col 22 Ln 40-63(the use of flip-flops introduces delay).

Art Unit: 2132

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& Col 15 Ln 66-Col 16 Ln 1 & Fig. 9 item 126,122, 128, 156; and the switching of writing

Regarding Claim 16, Kuznetsov discloses the plurality of memories see Col 15 Ln 12-17

destination at time intervals see Fig. 9 item 30.

Regarding Claim 17, Kuznetsov discloses the transferring of data to another storage

see Fig. 9 item 152.

Regarding Claim 19 see Claim 14 above and Claim 7 above.

Regarding Claim 21,23, 25,27, Kuznetsov discloses the stopping and canceling data

transfer see Col 14 Ln 43-49 & Col 13 Ln 56-64.

Regarding Claim 22, 24,26,28, Kuznetsov discloses the stopping and blocking access

to memory as well see Col 11 Ln 2-14.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy

as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final

action is set to expire THREE MONTHS from the mailing date of this action. In the

event a first reply is filed within TWO MONTHS of the mailing date of this final action

and the advisory action is not mailed until after the end of the THREE-MONTH

shortened statutory period, then the shortened statutory period will expire on the date

Art Unit: 2132

the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be

Page 6

calculated from the mailing date of the advisory action. In no event, however, will the

statutory period for reply expire later than SIX MONTHS from the mailing date of this

final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Venkat Perungavoor whose telephone number is 571-

272-7213. The examiner can normally be reached on 8:30-5:00. If attempts to reach

the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron

can be reached on 571-272-3799. The fax phone number for the organization where

this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

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GILBERTO BARRON JA SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100 Venkat Perungavoor Examiner Art Unit 2132